

Title: Object Detection Aid for the visually Impaired

Introduction: Visual Impairment has created challenges in independent navigation, this proposal seeks to research into object detection algorithms that will provide real-time feedback about obstacles and improve mobility of visually impaired people with the aid of technology. The Object Detection Aid for the Visually Impaired project has the potential to make a profound impact on the lives of visually impaired individuals. By providing a cost-effective, user-friendly solution for obstacle detection and navigation, we can empower this community to lead more independent and fulfilling lives.

Objective:

Improve safety and independence of the visually impaired by providing real time feedback to aid in navigation.

Improved object detection algorithms

Methodology:

Research will be conducted into algorithms to provide feedback on obstacles, the distance and direction of these obstacles, portable devices with sensors and how to ensure user-friendliness while implanting.

This Object Detection Aid will:

- Empower visually impaired individuals to navigate independently.
- Improve safety by reducing the risk of accidents.
- Boost confidence and enhance their quality of life.

Conclusion

The Object Detection Aid for the Visually Impaired project has the potential to make a profound impact on the lives of visually impaired individuals. By providing a cost-effective, user-friendly solution for obstacle detection and navigation, we can empower this community to lead more independent and fulfilling lives.